

RECORDATION FORM COVER SHEET

U.S. Department of Commerce  
Bureau of Standardization

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

1. Name of conveying party(ies):  VIJAY D. PARKHE GILBERT HAUSMANN JAGADISH KALYANAM		Date
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Nature of conveyance:  <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____		
Execution Date: <u>2/14/2000</u>		
4. Application number(s) or registration number(s):  If this document is being filed together with a new application, the execution date of the application is: <u>2/16/2000</u> (Date of Filing)		
A. Patent Application No.(s)  B. Patent No.(s)		
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Name and address of party to whom correspondence concerning document should be mailed:  Name: <u>Patent Counsel</u>  Internal Address: <u>APPLIED MATERIALS, INC.</u>  Street Address: <u>P.O. Box 450-A</u>  City: <u>Santa Clara</u> State: <u>CA</u> Zip: <u>95052</u>		6. Total number of applications and patents involved: <u>1</u>
		7. Total fee (37 C.F.R. 3.41) <u>\$ 40.00</u>  <input type="checkbox"/> Enclosed
		<u>X</u> Authorized to be charged to deposit account <u>50-1074/AMAT/3980/MD/COPPER/DV</u>
8. Deposit account number: <u>50-1074/AMAT/3980/MD/COPPER/DV</u>		

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**9. Statement and signature.**

*To the best of my knowledge*

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Total number of pages including cover sheet, attachments and document: 3

Mail documents to be recorded with required cover sheet information to  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses  
of Inventors:

1)	VIJAY D. PARKHE 4054 Bouquet Park Lane San Jose, California 95135	2)	GILBERT HAUSMANN 155 Tennyson Avenue Ben Lomond, California 95005
3)	JAGADISH KALYANAM 6501 Hidden Creek Drive San Jose, California 95120		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

**CHEMICAL VAPOR DEPOSITION OF BARRIERS FROM NOVEL PRECURSORS**

for which application for Letters Patent in the United States was filed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon,

including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) <u>February 12</u> , 2000	<u>V.D.Parkhe</u>
	VIJAY D. PARKHHE
2) <u>February 14</u> , 2000	<u>G.Haussmann</u>
	GILBERT HAUSSMANN
3) <u>Feb 14</u> , 1999	<u>Umapathy</u>
	JAGADISH KALYANAM